

Title (en)  
BLOCKCHAIN-BASED TRUSTABLE GUARANTEES

Title (de)  
AUF BLOCKCHAIN-BASIERENDE VERTRAUENSWÜRDIGE GARANTIEN

Title (fr)  
GARANTIES FIABLES REPOSANT SUR UNE CHAÎNE DE BLOCS

Publication  
**EP 3794484 A2 20210324 (EN)**

Application  
**EP 20725748 A 20200203**

Priority  
CN 2020074248 W 20200203

Abstract (en)  
[origin: WO2020098838A2] Disclosed herein are methods, systems, and apparatus, including computer programs encoded on computer storage media, for processing blockchain-based guarantee information. One of the methods includes receiving a cyphertext of a digital document specifying a guarantee from a first computing device associated with a first guarantor and one or more zero-knowledge proofs (ZKPs) related to one or more values associated with the guarantee; verifying that the one or more ZKPs are correct; upon verifying that the one or more ZKPs are correct, storing the cyphertext to a blockchain based on performing a consensus algorithm; receiving a first message from a second computing device associated with a beneficiary or a representative of the beneficiary, the first message including an acceptance of the guarantee by the beneficiary; and updating a status of the guarantee to indicate that the guarantee has been accepted by the beneficiary.

IPC 8 full level  
**G06F 21/60** (2013.01)

CPC (source: CN EP US)  
**G06F 16/2365** (2019.01 - US); **G06F 16/2379** (2019.01 - US); **G06F 21/64** (2013.01 - EP); **G06Q 20/12** (2013.01 - EP); **G06Q 20/38215** (2013.01 - EP); **G06Q 20/3829** (2013.01 - CN EP US); **G06Q 20/389** (2013.01 - US); **G06Q 20/4016** (2013.01 - EP); **G06Q 20/403** (2013.01 - CN); **G06Q 20/405** (2013.01 - EP); **G06Q 30/0609** (2013.01 - EP); **H04L 9/008** (2013.01 - US); **H04L 9/085** (2013.01 - EP US); **H04L 9/0894** (2013.01 - US); **H04L 9/3218** (2013.01 - EP US); **H04L 9/3239** (2013.01 - EP US); **H04L 9/50** (2022.05 - EP); **H04L 9/3247** (2013.01 - US); **H04L 9/50** (2022.05 - US); **H04L 2209/56** (2013.01 - US)

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**WO 2020098838 A2 20200522**; **WO 2020098838 A3 20201210**; **WO 2020098838 A9 20210107**; CN 111433798 A 20200717; CN 111433798 B 20220531; EP 3794484 A2 20210324; EP 3794484 A4 20210505; EP 3794484 B1 20240417; SG 11202012851Y A 20210128; US 11182788 B2 20211123; US 2021150516 A1 20210520

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